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## **CLAIM AMENDMENTS**

- 1. (Original) A method of promoting the regression of a cancer in a mammal, which method comprises:
  - (i) administering to the mammal nonmyeloablative lymphodepleting chemotherapy, and
    - (ii) subsequently administering:
- (a) autologous T-cells, which have been previously isolated, selected for highly avid recognition of an antigen of the cancer, the regression of which is to be promoted, and rapidly expanded *in vitro* only once, and, either concomitantly with the autologous T-cells or subsequently to the autologous T-cells, by the same route or a different route, a T-cell growth factor that promotes the growth and activation of the autologous T-cells, or
- (b) autologous T-cells, which have been previously isolated, selected for highly avid recognition of an antigen of the cancer, the regression of which is to be promoted, modified to express a T-cell growth factor that promotes the growth and activation of the autologous T-cells, and rapidly expanded *in vitro* only once, whereupon the regression of the cancer in the mammal is promoted.
- 2. (Original) The method of claim 1, wherein the T-cell growth factor is interleukin-2 (IL-2), interleukin-7 (IL-7), interleukin-15 (IL-15), or a combination of two or all of the foregoing.
- 3. (Currently Amended) The method of claim 1 or 2, wherein the nonmyeloablative lymphodepleting chemotherapy comprises the administration of cyclophosphamide and fludarabine.
- 4. (Original) The method of claim 3, wherein around 60 mg/kg of cyclophosphamide are administered for two days after which around 25 mg/m<sup>2</sup> fludarabine are administered for five days.
- 5. (Original) The method of claim 4, wherein the cyclophosphamide and fludarabine are administered intravenously.
  - 6. (Currently Amended) The method of claim 2 any of claims 2-5, wherein a

dose of about 720,000 IU/kg of IL-2 is administered three times daily until tolerance.

- 7. (Original) The method of claim 6, wherein from about 5 to about 12 doses of IL-2 are administered.
- 8. (Original) The method of claim 7, wherein around 9 doses of IL-2 are administered.
- 9. (Currently Amended) The method of <u>claim 6</u> any of claims 6-8, wherein the dose of IL-2 is administered as a bolus intravenous injection.
- 10. (Currently Amended) The method of claim 1 any of claims 1-9, wherein from about  $2.3 \times 10^{10}$  T-cells to about  $13.7 \times 10^{10}$  T-cells are administered.
- 11. (Original) The method of claim 10, wherein around  $7.8 \times 10^{10}$  T-cells are administered.
- 12. (Currently Amended) The method of <u>claim 1</u> any of claims 1-11, wherein the T-cells are administered as an intravenous infusion.
- 13. (Original) The method of claim 12, wherein the intravenous infusion lasts approximately 30-60 min.
- 14. (Currently Amended) The method of <u>claim 1</u> any of claims 1-13, wherein the cancer is melanoma.
- 15. (Original) The method of claim 14, wherein the T-cells bind to melanoma antigen recognized by T-cells-1 (MART-1).
- 16. (Currently Amended) The method of <u>claim 1</u> any of claims 1-15, wherein the cancer is metastatic.
- 17. (Currently Amended) The method of <u>claim 1</u> any of claims 1 16, wherein the mammal is a human.

- 18. (Original) A method of promoting the regression of metastatic melanoma in a human, which method comprises:
- (i) intravenously administering around 60 mg/kg of cyclophosphamide for two days followed by around 25 mg/m² fludarabine for five days, and
  - (ii) subsequently intravenously administering:
- (a) an infusion of around  $2.3 \times 10^{10}$   $13.7 \times 10^{10}$  autologous T-cells, which have been previously isolated, selected for highly avid recognition of MART-1, and rapidly expanded *in vitro* only once, and, either concomitantly with the autologous T-cells or subsequently to the autologous T-cells, a bolus of about 720,000 IU/kg of IL-2 three times daily until tolerance, or
- (b) an infusion of around  $2.3 \times 10^{10} 13.7 \times 10^{10}$  autologous T-cells, which have been previously isolated, selected for highly avid recognition of MART-1, modified to express IL-2, and rapidly expanded *in vitro* only once, whereupon the regression of the metastatic melanoma in the human is promoted.
- 19. (Original) The method of claim 18, wherein around 7.8 x 10<sup>10</sup> T-cells are administered.
- 20. (Currently Amended) The method of claim 18 or 19, wherein from about 5 to about 12 doses of IL-2 are administered.
- 21. (Original) The method of claim 20, wherein around 9 doses of IL-2 are administered.
- 22. (Currently Amended) The method of <u>claim 18</u> any of claims 18-21, wherein the intravenous infusion lasts approximately 30-60 min.
- 23. (Original) A method of promoting the regression of a cancer in a mammal, which method comprises:
- (i) administering to the mammal nonmyeloablative lymphodepleting chemotherapy, and
  - (ii) subsequently administering:
- (a) autologous T-cells, which have been previously isolated, selected for highly avid recognition of an antigen of the cancer, the regression of which is to be promoted, by stimulation of the T-cells *in vitro* with the antigen of the cancer, and, optionally, rapidly

expanded *in vitro* at least once by further stimulation with the antigen of the cancer, and, either concomitantly with the autologous T-cells or subsequently to the autologous T-cells, by the same route or a different route, a T-cell growth factor that promotes the growth and activation of the autologous T-cells, or

- (b) autologous T-cells, which have been previously isolated, selected for highly avid recognition of an antigen of the cancer, the regression of which is to be promoted, by stimulation of the T-cells *in vitro* with the antigen of the cancer, modified to express a T-cell growth factor that promotes the growth and activation of the autologous T-cells, and, optionally, rapidly expanded *in vitro* at least once by further stimulation with the antigen of the cancer, whereupon the regression of the cancer in the mammal is promoted.
- 24. (Original) The method of claim 23, wherein the T-cell growth factor is IL-2, IL-7, IL-15, or a combination of two or all of the foregoing.
- 25. (Currently Amended) The method of claim 23 or 24, wherein the nonmyeloablative lymphodepleting chemotherapy comprises the administration of cyclophosphamide and fludarabine.
- 26. (Original) The method of claim 25, wherein around 60 mg/kg of cyclophosphamide are administered for two days after which around 25 mg/m<sup>2</sup> fludarabine are administered for five days.
- 27. (Original) The method of claim 26, wherein the cyclophosphamide and fludarabine are administered intravenously.
- 28. (Currently Amended) The method of <u>claim 24</u> any of claims 24-27, wherein a dose of about 720,000 IU/kg of IL-2 is administered three times daily until tolerance.
- 29. (Original) The method of claim 28, wherein from about 5 to about 12 doses of IL-2 are administered.
- 30. (Original) The method of claim 29, wherein around 9 doses of IL-2 are administered.

- 31. (Currently Amended) The method of <u>claim 28</u> any of claims 28-30, wherein the dose of IL-2 is administered as a bolus intravenous injection.
- 32. (Currently Amended) The method of claim 23 any of claims 23-31, wherein from about 1.2 x  $10^{10}$  T-cells to about 4.3 x  $10^{10}$  T-cells are administered.
- 33. (Currently Amended) The method of <u>claim 23</u> any of claims 23-32, wherein the T-cells are administered as an intravenous infusion.
- 34. (Original) The method of claim 33, wherein the intravenous infusion lasts approximately 30-60 min.
- 35. (Currently Amended) The method of <u>claim 23</u> any of claims 23 34, wherein the cancer is melanoma.
  - 36. (Original) The method of claim 35, wherein the T-cells bind to MART-1.
- 37. (Currently Amended) The method of <u>claim 23</u> any of claims 23-36, wherein the cancer is metastatic.
- 38. (Currently Amended) The method of <u>claim 23</u> any of claims 23-37, wherein the mammal is a human.
- 39. (Currently Amended) The method of <u>claim 23</u> any of claims 23-38, wherein the antigen of the cancer consists of amino acids 26-35 of MART-1, in which amino acid 27 has been replaced with leucine.
- 40. (Currently Amended) The method of <u>claim 23</u> any of claims 23-39, wherein the antigen of the cancer consists of amino acids 209-217 of gp100, in which amino acid 210 has been replaced with methionine.